

Receiving Report

Date: 17-6-21

Batch No: 137853

Supplier: Monroe

Dart P/O: 36540

Packing Slip: Yes ✓ No
 Invoice: Yes No
 Receipt: Cash Cr ✓
 New Supplier Yes No ✓

Release Note Attached: Yes No ✓ N/A
 Waybill Attached: Yes No N/A ✓
 Shipment Complete: Yes No N/A ✓
 QC18 Inspection N/A ✓
 Work Order N/A

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

SP

Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36540

Purchase Order Date 6/2/2017

PO Print Date 6/2/2017

Page Number 1 of 9

Order From :

VU-EC001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

MONROE AEROSPACE
399 EAST DRIVE
MELBOURNE, FLORIDA 32904
USA

MI 37736

Contact Name

Vendor Phone

1-321-727-0047

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

FedEx Economy collect

Ship Acct:

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	AN310-5	Nut	6/7/2017 Yes 6/7/2017	FN	50.00 Each	\$0.75	\$37.50
						Line Total:	\$37.50
2	AN316C4R	Nut, Jam	6/7/2017 Yes 6/7/2017		50.00 Each	\$0.62	\$31.00
						Line Total:	\$31.00
3	AN3-3A	Bolt	6/7/2017 Yes 6/7/2017	FN	50.00 Each	\$0.07	\$3.50

Note:

6/2/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36540

Purchase Order Date 6/2/2017

PO Print Date 6/2/2017

Page Number 7 of 9

Order From:

MONROE AEROSPACE
399 EAST DRIVE
MELBOURNE, FLORIDA 32904
USA

VU-EC001

Ship To: DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

1-321-727-0047

Ship To Contact

Ship To Phone

Ship Via:

Ship Acct:

FedEx Economy collect

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

FCA - (Free Carrier)

21 MS27039-1-12

Screw

6/7/2017 FN
Yes
6/7/2017

50.00
Each

\$0.09

\$4.50

Line Total:

\$4.50

22 MS27039-1-16

Screw

6/7/2017 FN
Yes
6/7/2017

150.00
Each

\$0.09

\$13.50

Line Total:

\$13.50

23 NAS1149C0463R

Washer

6/7/2017
Yes
6/7/2017

200.00
Each

\$0.05

\$10.00

Line Total:

\$10.00

24 NAS1149C0563R

Washer

6/7/2017 FN
Yes
6/7/2017

200.00
Each

\$0.06

\$11.00

Note:

6/2/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36540

Purchase Order Date 6/2/2017

PO Print Date 6/2/2017

Page Number 8 of 9

Order From :

MONROE AEROSPACE
399 EAST DRIVE
MELBOURNE, FLORIDA 32904
USA

VU-EC001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

1-321-727-0047

Ship To Contact

Ship To Phone

Ship Via:

FedEx Economy collect

Ship Acct:

Buyer

Customer POID

Customer Tax #

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

USD

FCA -- (Free Carrier)

Line Total:

\$11.00

25 NAS6604D16

Bolt

6/7/2017 FN
Yes
6/7/2017

50.00
Each

\$1.65

\$82.50

Line Total:

\$82.50

26 QS200-44S

CLAMP

6/7/2017
Yes
6/7/2017

20.00
Each

\$1.90

\$38.00

Line Total:

\$38.00

27 NAS1149D0332J

Washer

6/7/2017 FN
Yes
6/7/2017

600.00
Each

\$0.02

\$12.00

Line Total:

\$12.00

Note:

6/2/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO36540

Purchase Order Date 6/2/2017
PO Print Date 6/2/2017

Page Number 9 of 9

Order From :

MONROE AEROSPACE
399 EAST DRIVE
MELBOURNE, FLORIDA 32904
USA

VU-EC001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

1-321-727-0047

Ship To Contact

Ship To Phone

Ship Via:

FedEx Economy collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

28 MS21919-WDG9

Clamp

6/7/2017

Yes

6/7/2017

100.00

Each

\$0.58

\$58.00

Line Total:

\$58.00

29 71401-45

procurement quality clauses

6/7/2017

No

6/7/2017

1.00

\$0.00

\$0.00

Line Total:

\$0.00

PO Total:

\$755.50

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS

FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A043 RETENTION OF QUALITY DOCUMENT

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

Change Date: 6/2/2017



ACI-665765292853

Commercial Invoice ECI

Invoice Number Purpose of Shipment

Export Dt C.I. References
6/15/2017 H1003651Curr Ult Dest.
USD CA
Pkgs Bill T/C
1 1517-9324-0
BOXAir Waybill Nbr.
665765292853
Bill D/T/FShipper:
RECEIVING
MONROE ECAS LLC
399 EAST DRIVE

MELBOURNE
FL 32904 US (321) 727-0047
ID/EIN:573124004Consignee:
CHANTAL LAVOIE
DART AEROSPACE LTD.
ATTN: RECEIVING
1270 ABERDEEN STREET
HAWKESBURY
ON K6A1K7 CA (613) 632-3336
ID/EIN:

Broker

Importer
CHANTAL LAVOIE
DART AEROSPACE LTD.
ATTN: RECEIVING
1270 ABERDEEN STREET
HAWKESBURY
ON K6A1K7 CA (613) 632-3336
ID/EIN:

Part Nbr:AN5-32A	Marks/Nbrs:	Cntry MFG:US	Net Wgt: 0.00 lbs
HS Code:	Unit Qty: 120.00 EA	Unit Value: 0.680000	Commodity Value: 81.60

Desc: BOLT UNDRILLED

Part Nbr:AN3-3A	Marks/Nbrs:	Cntry MFG:US	Net Wgt: 0.00 lbs
HS Code:	Unit Qty: 50.00 EA	Unit Value: 0.120000	Commodity Value: 6.00

Desc: BOLT UNDRILLED

Part Nbr:AN960C516	Marks/Nbrs:	Cntry MFG:US	Net Wgt: 0.00 lbs
HS Code:	Unit Qty: 100.00 EA	Unit Value: 0.060000	Commodity Value: 6.00

Desc: WASHER

Part Nbr:QS200M44S	Marks/Nbrs:	Cntry MFG:US	Net Wgt: 0.00 lbs
HS Code:	Unit Qty: 20.00 EA	Unit Value: 1.900000	Commodity Value: 38.00

Desc: CLAMP

Total Shipment Weight:	12.95	Total Commodity Value:	131.60
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These commodities, technology, or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to United States law is prohibited.

Terms of Sale:	FCA
Freight:	0.00
Insurance:	0.00
Others:	0.00
Total Invoice Value:	131.60

Comments:

1)



2)
3)

I declare all information in this invoice to be true and correct.
Signature of shipper: RECEIVING 6/15/2017

Ricardo Pisham

SP17-621

**PACKING SLIP**

INVOICE #: 603680
DATE PRINTED: 6/15/2017
TIME: 2:48:36 PM
OF ITEMS: 4
PAGE: 1

TO: DART AEROSPACE LTD.
ACCTS. PAYABLE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

ATTN: CHANTAL LAVOIE
Ph: 613.632.3336 Fax: 613.632.5246

SHIP TO: DART AEROSPACE LTD.
ATTN: RECEIVING
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

INVOICE DATE: 6/15/2017

ORDER DATE: 6/2/2017

SHIP DATE: 6/15/2017

SALES ORDER #: 534342

CUSTOMER #: 16754

TERMS: NET 30

CUST PO: PO36540

FOB: MELBOURNE, FL

AWB: 665765292853

WEIGHT: 12.95

OF BOXES:

SHIPMENT #: 0

SHIP VIA: 113- FX INT ECONOMY

YOUR MONROE ACCOUNT REP: Luis Sepulveda

ITEM	PART NUMBER/DESCRIPTION	SHIPPED	B/O	CD	UNIT PRICE	UOM
3	AN3-3A BOLT UNDRILLED MFR: AFC LOT: 25531 REV: 3 Control #: 155263-1	50.00	0.00	NE		
11	AN5-32A BOLT UNDRILLED MFR: AIRFASCO LOT: 24917 REV: 3 Control #: 155352-1	120.00	0.00	NE		
24	AN960C516 WASHER MFR: SUPERIOR LOT: 567944-5 Control #: 137719-1	100.00	0.00	NE		
26	QS200M44S CLAMP Customer Reference: NAS1149C0563R MFR: NORMA/BREEZE LOT: 01001324 Control #: 155382-1	20.00	0.00	NE		

SPECIAL INSTRUCTIONS:

We Thank You For Your Continued Business!

MONROE TAX ID: 47-3784072

ECAS, LLC dba MONROE AEROSPACE

399 EAST DRIVE MELBOURNE, FL 32904 PH: 800.330.3975 FAX: 321.727.7331



MONROE TAX ID: 47-3784072

Invoice

INVOICE #: 603680
DATE PRINTED: 6/15/2017
TIME: 2:47:30 PM
OF ITEMS: 4
PAGE: 1

TO: DART AEROSPACE LTD.
ACCTS. PAYABLE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

SHIP TO: DART AEROSPACE LTD.
ATTN: RECEIVING
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7
CANADA

ATTN: CHANTAL LAVOIE
Ph: 613.632.3336 Fax: 613.632.5246

INVOICE DATE: 6/15/2017
ORDER DATE: 6/2/2017
SHIP DATE: 6/15/2017
SALES ORDER #: 534342
CUSTOMER #: 16754

TERMS: NET 30
CUST PO: PO36540
FOB: MELBOURNE, FL
AWB: 665765292853

WEIGHT: 12.95
OF BOXES:
SHIPMENT #: 0

SHIP VIA: 113- FX INT ECONOMY

YOUR MONROE ACCOUNT REP: Luis Sepulveda

ITEM	PART NUMBER/DESCRIPTION	SHIPPED	B/O	CD	UNIT PRICE	UOM	TOTAL AMT
3	AN3-3A BOLT UNDRILLED ECCN#: 9A991 SCHB#: 7318.15.2000 MFR: AFC LOT:25531 REV: 3	50.00	0.00	NE	0.1200	EA	\$6.000
11	AN5-32A BOLT UNDRILLED ECCN#: 9A991 SCHB#: 7318.15.2000 MFR: AIRFASCO LOT:24917 REV: 3	120.00	0.00	NE	0.6800	EA	\$81.600
24	AN960C516 WASHER ECCN#: 9A991 SCHB#: 7318.22.0000 MFR: SUPERIOR LOT:567944-5	100.00	0.00	NE	0.0600	EA	\$6.000
26	Customer Reference: NAS1149C0563R QS200M44S CLAMP ECCN#: EAR99 SCHB#: 7616.10.9090 MFR: NORMA/BREEZE LOT:01001324	20.00	0.00	NE	1.9000	EA	\$38.000
*** Order Complete ***							

SPECIAL INSTRUCTIONS:

We Thank You For Your Continued Business!

SUB TOTAL: \$131.600
TAX TOTAL: \$0.000
MISC CHARGE: \$0.000
FREIGHT: \$0.000
TOTAL: \$131.60
USD



CERTIFICATE OF CONFORMITY

NO: 603680

BILL TO:

DART AEROSPACE LTD.
ACCTS. PAYABLE
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

SHIP TO:

DART AEROSPACE LTD.
ATTN: RECEIVING
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

CUSTOMER PO	SHIP DATE	AIRWAY BILL/TRACKING #
PO36540	6/15/2017	665765292853

PART NO:	Description	CND	QTY	S/L	
AN3-3A REV: 3	BOLT UNDRILLED Customer Reference:	NE	50	59	LOT: 25531 MFR: AFC
AN5-32A REV: 3	BOLT UNDRILLED Customer Reference:	NE	120	24	LOT: 24917 MFR: AIRFASCO
AN960C516	WASHER Customer Reference: NAS1149C0563R	NE	100	25	LOT: 567944-5 MFR: SUPERIOR
QS200M44S	CLAMP Customer Reference:	NE	20	18	LOT: 01001324 MFR: NORMA/BREEZE

CONDITIONS: NE - New OH-OVERHAULED RP-REPAIRED SV-SERVICEABLE

We hereby certify that the items that are a part of this Purchase Order have been visually & dimensionally found to conform to all applicable standards, drawings & specifications. The liability of ECAS, LLC is limited to replacement of any item which is rejected because of a defect in material or workmanship if notified within 30 days & liability shall not exceed the invoice value. Such replacement shall constitute satisfaction of all liability.

SIGNED: _____

For and on behalf of ECAS, LLC dba MONROE AEROSPACE

ECAS, LLC dba MONROE AEROSPACE
399 EAST DRIVE MELBOURNE, FL 32904 PH: 800.330.3975

2655 Harrison Ave. SW
Canton, Ohio 44706-3047
Phone: 330-430-6190
Fax: 330-430-6199

CERTIFICATE OF CONFORMANCE

ECAS

I hereby certify that on 06/05/17 Airfasco Industries provided the supplies called for by Contract/ PO Number FL79636 in accordance with all applicable requirements for shipment. I further state/ that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States.

Quality Assurance Representative


WM. DENT

[illegible]



2655 Harrison Ave. SW
Canton, Ohio 44706-3047
Phone: 330-430-6190
Fax: 330-430-6199

PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: 11/23/15 PART NO.: AN3-3A per NASM3-3A rev. 3
AFC LOT NO.: 25531 QTY MFG.: 233,500
PROCUREMENT SPECIFICATION: Produced per NASM 6812

HEAT TREAT

VENDOR: Brite Metal CERTIFICATION NO.: 170678
PROCUREMENT SPECIFICATION: Heat Treat per AMS 2759

PLATING

VENDOR: Berenger Plating CERTIFICATION NO.: 90480
PROCUREMENT SPECIFICATION: Cadmium Plate per AMS-QQ-P-416 D, Type II, Class 2

MATERIAL

MILL: ISW/Arcelor COUNTRY OF MELT: USA HEAT: C97211
GRADE SPECIFICATION: Alloy Steel per AMS 6300 F, Type 4037, .218"


4037 MATERIAL CHEMISTRY											
ELEMENT-ID.	-C-	-MN-	-P-	-S-	-SI-	-NI-	-CR-	-MO-	-CU-	-AL-	Other
LADLE	.390	.850	.004	.009	.220	.010	.030	.234	.020	.028	

PHYSICAL PROPERTIES				
PHYSICAL	TENSILE	YIELD	SHEAR	HARDNESS
REQUIRED	2,210 lbs.	1,690 lbs.	2,125 lbs.	HRC 28-32
ACTUAL	3,836 lbs.	2,984 lbs.	2,646 lbs.	HRC 29-30

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

QS-082
REV 0
2/15

Airfasco Industries
Quality Assurance Representative:


T. West



1901 N. Narragansett Ave. • Chicago, Illinois 60639
773/804.0404 • Fax 773/804.0408
www.industeel.com
An ISO 9001 Certified Company

09/30/14

ISW Order/Invoice Number: 172668-01

SOLD TO: A3635
Airfasco Industries
2655 HARRISON AVE SW

SHIP TO: A3635
Airfasco Industries
2655 HARRISON AVE SW

CANTON OH 44706

CANTON OH 44706

CUSTOMER PO: 60345

2180ACPC

.2180"A4037 C/C ANNEALED ROD PHOS LUBE CLS

WEIGHT: 2998

HEAT NUMBER: C97211

CHEMISTRIES

C	Mn	P	S	Si
.390	.850	.009	.009	.009

PHYSICAL PROPERTIES

TENSILE: 68326... 73150.

TORSIONS:

ROCKWELL #1:
ROCKWELL #2:

BENDS:
SALT SPRAY HOURS:
COATING WEIGHT:
GRAIN SIZE:

YIELD STRENGTH: 000000/000000
ELONGATION:
REDUCTION OF AREA:

**** MERCURY FREE ****

*** SPECIFICATIONS ***
AMS 6300 CHEM ONLY
ASTM F 2282-03
IFI 140

TARIFF:
NAFTA: B

MELT: US UNITED STATES
ORIG: US UNITED STATES
MILL:
DFAR: Y
ROHS: Y


Rey Domingo, Quality Control Manager

Emorial

The values and specifications herein are passed through from the manufacturer directly to the customer.
Please see reverse side or www.industeel.com for all Terms and Conditions of Sale.
Material Properties Sheet 70403-MPS Version 1 Approved by BF 11/20/12

Certificat d'essai/Test Certificate

ArcelorMittal

Usine de Contrecoeur Est / Contrecoeur East works

5500 ARRODES

Vendue à - Sold to INDUSTRIAL STEEL & WIRE COMPANY OF ILLINOIS L.L.C. 1901 N. Narragansett CHICAGO IL 60639 ETATS-UNIS	Expédié à - Shipped to EMERALD STEEL PROCESSING 31650 Stephenson Highway MADISON HEIGHTS MI 48071 ETATS-UNIS
---	--

No de com. Sole order 113722	No de bon de comm. Customer Order 862227	Connaissance B/L of lading 80588663	Date expé. Date shipped 2013/11/11	Date du cert. Certificate Date 2013/11/11	No de Certificat Certificate no 0000254462
------------------------------------	--	---	--	---	--

Article Item	Description	No Matériel Material No	No pièce Part No	Poids expédié Weight	Couée Heat
000001	Cold Heading Qual WR, Green Rod ALLOY 4037, 0.217" - 5.50mm ALLOY 4037 ISW	21008572	0000000000	36,037LB	C97211_01

ANALYSE CHIMIQUE-CHEMICAL ANALYSIS (%)

Couée/Heat:	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Nb	Alc	Als
C97211_01	0.35	0.85	0.004	0.009	0.22	0.02	0.01	0.03	0.234	0.003	0.000	0.028	0.027
Couée/Heat:	N	Sn	Ti	B	Ca	Pb	As	Co	Sb	Bi	D.I.	C.E.	Stdv
C97211_01	0.0022	0.001	0.001	0.0005	0.0019	0.000	0.001	0.003	0.000		1.75		

Remarques/Remarks:

The chemical analysis was performed at ArcelorMittal Montreal Inc. laboratory, 3900 route des Acières, Contrecoeur (Québec) J0L 1C0 Canada. The laboratory is accredited by BNC according to ISO-17025 (certificate no 270). The testing methods used by the laboratory are ASTM E415 and ASTM E1019.

Signature:

Métallurgie (A/Q)

Métallurgie (Q/A)

Michel Trudeau

1253

BRITE METAL

CERTIFICATION OF PROCESS

CUSTOMER: AIRFASCO INDUSTRIES, INC

2655 HARRISON AVE SW

CANTON OH 44706

THIS IS TO CERTIFY THAT BRITE METAL INC. HAS PROCESSED THE FOLLOWING MATERIAL IN ACCORDANCE WITH THE MOST WIDELY ACCEPTED METALLURGICAL PROCEDURE.

PO #: 62185

WEIGHT: 1607 LBS

NO. BINS: 1

NO. PCS: 233,500

PN#: AN3-3A

LOT#: 25531

MATERIAL#: 4037

BM ORDER NO: 170678

CORE HARD SPECS: HRC 28-32

PROCESS TO: AMS 2759

DATE RECEIVED: 10/07/2015

DATE SHIPPED:

HEAT TREATING TEST RESULTS

CORE HARDNESS: _____ **RC 29 / 30** _____

SURFACE HARDNESS: _____ **RC 29 / 30 @ .003** _____

CASE DEPTH: _____ **N/A** _____

CORE HARDNESS AS QUENCHED: _____ **N/A** _____

INSPECTOR: _____ **SK** _____

DATE: _____ **10-21-15** _____

Approved by Bruce Hogie
Revision Date: 2/13/2013

CERTIFICATE OF COMPLIANCE

SUPPLIER: **BERINGER PLATING, INC.**
1211 DeValera Ave.
Akron, OH 44310
330-633-8409 Fx 330-633-8447
sales@beringerplating.com

CUSTOMER: Airfasco Industries, Inc.

Beringer Invoice: 90480

P.O. Number: 62270

Part Number: AN3-3A

Lot Number: 25531-01

Lot Quantity: 233,500 pcs

Specification: Cadmium Plate per AMS-QQ-P-416D Type II, Class 2

Mercury Free Clause: No possibility exists for mercury contamination to occur during processing or testing of parts on this contract.

Coating Thickness: .0003 inches

Embrittlement Relief

Baked: N/A Hours at F Within 1 Hour of Plating.

Inspection Level to applicable standard:

S-3 of MIL.-STD.-105D:

4 %

ASTM B602 Table II:

1.50%

Aircraft Braking System:

1%

ACC. X

Certified By:

James Beringer Jr.

James Beringer Jr.
President

Date: 11/13/2015



2655 Harrison Ave. SW
Canton, Ohio 44706-3047
Phone: 330-430-6190
Fax: 330-430-6199

PHYSICAL AND CHEMICAL CERTIFICATION

DATE MFG.: 03/30/15

PART NO.: AN5-32A per NASM5-32A rev.3

AFC LOT NO.: 24917

QTY MFG.: 21,250

PROCUREMENT SPECIFICATION: Produced per NASM 6812

HEAT TREAT

VENDOR: Brite Metal

CERTIFICATION NO.: 168778

PROCUREMENT SPECIFICATION: Heat Treat per AMS 2759

PLATING

VENDOR: Beringer Plating

CERTIFICATION NO.: 85873

PROCUREMENT SPECIFICATION: Cadmium Plate per AMS-QQ-P-416 C, Type II, Class 2

MATERIAL

MILL: Cuyahoga Steel/Republic COUNTRY OF MELT: USA HEAT: 8962033

GRADE SPECIFICATION: Alloy Steel per AMS 6322 N, Type 8740, .444"


8740 MATERIAL CHEMISTRY											
ELEMENT-ID.	-C-	-MN-	-P-	-S-	-SI-	-NI-	-CR-	-MO-	-CU-	-AL-	Other
LADLE	.410	.890	.015	.014	.250	.490	.460	.210	.100	.027	

PHYSICAL PROPERTIES				
PHYSICAL	TENSILE	YIELD	SHEAR	HARDNESS
REQUIRED	6,500 lbs.	4,980 lbs.	5,750 lbs.	HRC 26-32
ACTUAL	9,584 lbs.	8,345 lbs.	6,612 lbs.	HRC 30-31

We hereby certify that the above data is correct and that the fasteners have been manufactured and inspected in accordance with Airfasco Industries quality requirements.

QS-082
REV 0
2/15

Airfasco Industries
Quality Assurance Representative:


T. West

**2655 Harrison Ave. SW
Canton, Ohio 44706-3047
Phone: 330-430-6190
Fax: 330-430-6199**

CERTIFICATE OF CONFORMANCE

ECAS

I Hereby Certify that on 06/06/17 Airfasco Industries provided the supplies called for by Contract/ PO Number FL79717 in accordance with all applicable requirements for shipment. I further state that the process certifications are in conformance with the contract requirements, including specifications and/or drawings, physical item identification (part number) and the quantity shown on this or attached acceptance document. The part numbers certified below have been manufactured in the United States. DFAR 252.225-7009 compliant in fastener base raw material melt source only, with heat number and country, does not include the post cadmium metal plating.

Quality Assurance Representative


WM. DENT

[illegible]

CUYAHOGA STEEL & WIRE
31000 SOLON RD, SOLON, OH 44139

MATERIAL CERTIFICATION

DATE: 6/04/2002

SLIP NO: 67138

Sold to:

Ship to:

AIRFASCO INDUSTRIES
207 SCHNEIDER ROAD
NORTH CANTON

AIRFASCO INDUSTRIES
1210 E 55TH
CLEVELAND

OH 44720-3649

OH 44103

ALL CHEMISTRY DATA IS CERTIFIED BY THE HOT MILL SUPPLIER
WHEN ELEMENT CONTENTS ARE REPORTED AS ZERO, ACTUAL CONTENTS MAY EQUAL ZERO OR
WERE NOT REPORTED BY THE HOT ROLL MILL.

Cust No.	PO#	Ship Date	Ship VIA	F O.B.
1030	31645	6/05/02	CUST TRUCK COL	SOLON

Our Order#	Date	Sales Rep	Qty Shipped
16157/	12/21/01	99	7,748

Item Description: .669/.572"R SP AN, PH, LB, 12'UL 8740 0.5720RAIRBR

CHEMICAL ANALYSIS

HEAT#

8962033

C	Mn	P	S	Pb	Si	Cr	Ni	Mo
.410	.890	.015	.014		.250	.460	.490	.230
V	Al	Cu	Sn	Te	Bi	Se	Cb	F
.003	.027	.100	.008	.000	.000	.000	.001	.0000
N	DI (In)							
.0057	.000							

PHYSICAL ANALYSIS

Structure	Decarb	Hardness	YS-.2% OFF-PSI	Tensile-PSI
90% SPH		RB 95		95400
XElong	%Reduct-Area	Carbon Free	T.A.D. Decarb	MET APPROVED
	62	.000	.000	JOHN CARROLL

COMMENTS:

02/26/02 B.B. CERT.

JOMINY HARDENABILITY

1 2 3 4 5 6 7 8 10 12 14 16 18 20 22 24 26 32

RECEIVED

JUN 13 2002

John



A DIVISION OF J.T. ADAMS CO., INC

4520 WILLOW PARKWAY
CLEVELAND, OHIO 44125
PHONE (216) 641-3290
FAX (216) 641-1223
www.tensile.com

CERTIFIED TEST REPORT

Airfasco Industries Inc.
2655 Harrison Ave. SW
Canton OH 44706

Job No.: B4-198-395
Date: 7-22-14
Cust. PO#: 61111

Description: 1 sample Mill: Republic Country of Melt: USA
Material: 8740 Heat# 8962033
Spec: AMS 6322N

TEST RESULTS

Product Analysis of Elements in % (OES per TTML C-01D):

	<u>Actual</u>	<u>Requirements</u>
Carbon	0.40	0.38-0.43
Manganese	0.90	0.75-1.00
Phosphorus	0.016	0.025 Max.
Sulfur	0.009	0.025 Max.
Silicon	0.25	0.15-0.35
Chromium	0.49	0.40-0.60
Nickel	0.58	0.40-0.70
Molybdenum	0.25	0.20-0.30
Columbium	0.002	N/A
Aluminum	0.041	N/A
Copper	0.01	0.35 Max.
Vanadium	0.002	N/A
Titanium	0.002	N/A

The above conforms to specifications listed.


Authorized Agent



Page 1 of 1

This Report May Not Be Reproduced Except in Full

This report represents Tensile Testing Interpretation of the results obtained from the test and is not to be construed as a Warranty or
Warranty of the condition of the materials tested. Tensile Testing shall not be held liable for misinterpretation of conditions, loss,
damage, injury or death arising from or attributable to delay preceding a test or subsequent to performance of a test.

BRITE METAL

CERTIFICATION OF PROCESS

CUSTOMER: AIRFASCO INDUSTRIES, INC
2655 HARRISON AVE SW
CANTON OH 44706

**THIS IS TO CERTIFY THAT BRITE METAL INC. HAS PROCESSED THE FOLLOWING
MATERIAL IN ACCORDANCE WITH THE MOST WIDELY ACCEPTED
METALLURGICAL PROCEDURE.**

PO #: 61689 **WEIGHT:** 1716 **NO. BINS:** 1 **NO. PCS:** 21,250

PN#: AN5-32A **LOT#:** 24917 **MATERIAL#:** 8740

BM ORDER NO: 168778 **CORE HARD SPECS:** HRC 28-32

PROCESS TO: AMS 2759

DATE RECEIVED: 02/20/2015 **DATE SHIPPED:**

HEAT TREATING TEST RESULTS

NUMBER OF SAMPLES: 2

CORE HARDNESS: RC 30 / 31

SURFACE HARDNESS: RC 30 / 31 @ .003

CASE DEPTH: N/A

CORE HARDNESS AS QUENCHED: N/A

INSPECTOR: SK

DATE: 3-5-15

Approved by Bruce Hogie
Revision Date: 2/13/2013

CERTIFICATE OF COMPLIANCE

SUPPLIER: **BERINGER PLATING, INC.**
1211 DeValera Ave.
Akron, OH 44310
330-633-8409 Fx 330-633-8447
sales@beringerplating.com

CUSTOMER: Airfasco Industries, Inc.

Beringer Invoice: 85873

P.O. Number: 61747

Part Number: AN5-32A

Lot Number: 24917-01

Lot Quantity: 21,250 pcs

Specification: Cadmium Plate per AMS-QQ-P-416C Type II, Class 2

Mercury Free Clause: No possibility exists for mercury contamination to occur during processing or testing of parts on this contract.

Coating Thickness: .0003 inches

Embrittlement Relief

Baked: N/A Hours at F Within 1 Hour of Plating.

Inspection Level to applicable standard:

S-3 of MIL.-STD.-105D:

4 %

ASTM B602 Table II:

1.50%

Aircraft Braking System:

1%

ACC. X

Certified By:

James Beringer Jr.

James Beringer Jr.
President

Date: 3/25/2015

AIRFASCO Industries

2855 Harrison Avenue SW Canton, OH 44706

Nondestructive Testing Certification Wet Fluorescent Magnetic Particle Inspection Technique

Part Data

Part Number	Lot Number	Dimensions	Part Description
AN5-32A	24917	5/16-24 X 3 11/32	BOLT-MACHINE, AIRCRAFT

Reference Data

Specification	Procedure Number	Acceptance Criteria
ASTM E1444	MT-1	No Cracks, NASM 6812

Inspection Equipment Data

Model Number	Manufacturer	Serial Number
H-800 Retro	Magnaflux Corporation	91R00150

Inspection Material Data

Particles	Mfr	Batch No.	Carrier	Mfr	Batch No.
14A	Magnaflux	10G078	MG II	Magnaflux	14B056

Technique Data

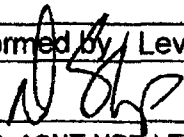
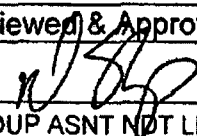
Type Current	Circular Field		Longitudinal Field	
	Headshot Amps	Central Conductor Amps	Coil shot Amps	Coil Turns
FWDC	200	N/A	790	5

Particle application by the flow method, continuous technique
Demagnetization performed by the AC Coil method, Residual field +/- 3

Inspection Results

Lot Size	Inspection Sample Size	Quantity accepted	Quantity rejected
21250	50	50	0

Notes:

Performed by Level	Reviewed & Approved by:	Date
 D. SHOUP ASNT NDT LEVEL III	 D. SHOUP ASNT NDT LIII #176608	3/30/15

SUPERIOR WASHER AND GASKET CORP.

170 Adams Avenue
 Hauppauge, New York 11788
 Phone: (631) 273-8282
 Fax: (631) 273-8088
 E-Mail: swg@superiorwasher.com
 Web: superiorwasher.com
 (In the East)

SUPERIOR WASHER AND GASKET CORP.

662 Bryant Blvd.
 Rock Hill, South Carolina 29732
 Phone: (803) 366-3250
 Fax: (803) 366-3511
 E-Mail: swg@superiorwasher.com
 Web: superiorwasher.com
 (In the South)

EAST COAST AVIATION SUPPLIES
 399 EAST DRIVE

MELBOURNE , FL 32904

Customer Purchase Order Number 72935		Superior Order Number C141841-1	Superior Lot Number 567944 - 5	Tracer No. SC36664 -1 /65372
Date 10-16-14	Production Card 0	Part Number NAS1149C0563R		Quantity 50,000
Drawing REV 5 AN960-C516 REV 21		Dual Cert No.		

We hereby certify that all materials and processes conform
 to the required drawing specifications and that the parts
 have been manufactured in the U.S.A.
 and comply with DFARS 252.225.7014 ALT 1
 All parts are manufactured in a Mercury-free environment

Material

304 STAINLESS STEEL Annealed per AMS5513J

PASSIVATE AMS2700 METHOD 1 TYPE 6 CLASS 1

Chemical Analysis

C	CARBON	.0490
Mn	MANGANESE	1.3900
P	PHOSPHORUS	.0300
S	SULPHUR	.0016
Si	SILICON	.3540
Cr	CHROMIUM	18.1600
Ni	NICKEL	8.0700
Mo	MOLYBDENUM	
Cu	COPPER	
Fe	IRON	
Ti	TITANIUM	
Co	COBALT	
N	NITROGEN	.0270
Cb	COLUMBIUM	
Al	ALUMINUM	
Sn	TIN	
Mg	MAGNESIUM	
Zn	ZINC	
Pb	LEAD	
Va	VANADIUM	

Mechanical Properties

Yield	43900
Tensile	98300
Elongation	58.7
Hardness	B 85.0
Heat	7534264
Magnetic	
Permeability	<2.0
Bend Test	OK

SUPERIOR WASHER & GASKET CORP.

By

Richard Anderson, Jr.

Richard Anderson, Jr.
 Quality Control Manager



NORMA Group
325 W. Silverbell Rd., Suite 230
Lake Orion, MI 48359
248.373.4300 Fax 248.373.3068

CERTIFICATION OF CONFORMANCE

DATE: 6/7/17

CUSTOMER NAME: Northern Marketing Associates

CUSTOMER ADDRESS: 100 market Street, Kenilworth NJ 07033

CUSTOMER PART NUMBER: 200 44 S

NORMA GROUP PART NUMBER: 03600021071

LOT NUMBERS: LOT01001324

QUANTITY SHIPPED: 200

PURCHASE ORDER: 022-416

On 6/7/17 Sold/Shipped To:
Monroe Ecas, LLC
399 East Drive
Melbourne, FL 32904
PO# FL79738
Your Part# QS200M44S
Breeze Part# 200 44S
Lot/Quantity: 01001324 / 40
Inv: 65932

WE HEREBY CERTIFY THAT THE PRODUCT LISTED ABOVE CONFORMS TO ALL MATERIAL AND PROCESS SPECIFICATIONS IN ACCORDANCE WITH THE PROVISIONS OF THE DRAWING.

Cory Waite - Quality Manager

June 7, 2017

Printed Name/Title

Authorized Signature

Date